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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/998,860	11/15/2001		Bruce A. Judson	000192	6945	
23696	7590	01/20/2004		EXAMINER		
Qualcomm Incorporated				GESESSE, TILAHUN		
Patents Dep 5775 Moreh		ve		ART UNIT	PAPER NUMBER	
San Diego, CA 92121-1714			2684	10		
				DATE MAILED: 01/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)				
·			60	JUDSON ET AL.				
	Office Action Summary	Examine	r	Art Unit				
		Tilahun B		2684				
Period fo	The MAILING DATE of this communication Reply	n appears on the	cover sheet with the c	orrespondence address				
A SH THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days repend for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by eply received by the Office later than three months after the department term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no evon. , a reply within the state period will apply and w statute, cause the app	ent, however, may a reply be tir tutory minimum of thirty (30) day fill expire SIX (6) MONTHS from dication to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on	10 October 200	<u>13</u> .					
2a)⊠	This action is FINAL . 2b)□	This action is no	on-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispo s iti	on of Claims							
5)□ 6)⊠ 7)□	4a) Of the above claim(s) is/are wit Claim(s) is/are allowed. Claim(s) <u>22-30</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction a							
Applicati	on Papers							
10)□	The specification is objected to by the Exa The drawing(s) filed on is/are: a) Applicant may not request that any objection t Replacement drawing sheet(s) including the c The oath or declaration is objected to by the	accepted or b) o the drawing(s) borrection is require	oe held in abeyance. See held if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority L	ınder 35 U.S.C. §§ 119 and 120							
a)[13)□ A si 3 a 14)□ A	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B see the attached detailed Office action for acknowledgment is made of a claim for doince a specific reference was included in the CER 1.78. 1. The translation of the foreign language acknowledgment is made of a claim for doince as a	ments have been ments have been priority docume ureau (PCT Rula list of the certimestic priority under first sentence perovisional appressic priority under the provisional appressic priority under the	en received. en received in Application received in Application 17.2(a)). ified copies not receive ander 35 U.S.C. § 119(a) of the specification of the specification of the 35 U.S.C. §§ 120	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet. ceived. and/or 121 since a specific				
Attachmen								
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449) Paper N			/ (PTO-413) Paper No(s) Patent Application (PTO-152)				



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APPLICATION NO./	FILING DATE	FIRST NAMED INVENTOR /	ATTORNEY DOCKET NO.
CONTROL NO.		PATENT IN REEXAMINATION	

EXAMINER

ART UNIT PAPER

10

DATE MAILED:

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Commissioner for Patents

Application/Control Number: 09/998,860 Page 2

Art Unit: 2684

DETAILED ACTION

1. This is in response to applicant's amendment filed October 23, 2003 in which claims 22-30 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 22-30 are rejected under 35 U.S.C. 102(a) as being anticipated by Hilsenrath et al "Hilsenrath" (6,026,304).

Regarding claim 22, Hilsenrath discloses a method for beam forming by base station (column 13, lines 15-25), comprising: determining whether a mobile station has reported position information (column 9, line 53-column 10, line 10 and figure 4) and determining the number and the direction of beams using information supplied from a predetermined multi path database according to the position information (column 6, lines 6-17, column 11, lines 37-56 and figures 11A-B)

Regarding claim 23,26, Hilsenrath discloses the multi path database (12 of 126) is created from measurements made by driving the mobile staion through the coverage area of the base station and logging mobile position and angle of arrival of the energy (column 11, lines 37-56 and figures 11a-11b and column 12, lines 10-35).

Application/Control Number: 09/998,860

Art Unit: 2684

Regarding claim 24,27, Hilsenrath discloses the multi path database is created from analysis of the surrounding in the coverage area of the base station (column 11, lines 37-56 and figures 4, column 12, lines 10-35).

Claim 25, which recited the steps of implementing apparatus, in place of method claim 1, is rejected for the same reason as set forth in the claim.

Regarding claim 28, Hilsenrath discloses a base station (128) comprising: a system processor (150) configured to determine whether a mobile station has reported position information column 9, line 53-column 10, line 10), and a spatial processing unit (150) configured to determine the number and the direction of beam using information supplied from a predetermined multi path database according to the reported position information (column 11, lines 37-56 and figures 11A-B).

Regarding claim 29, Hilsenrath discloses the multi path database is created from measurements made by driving the mobile staion through the coverage area of the base station and logging mobile position and angle of arrival of the energy (column 11, lines 37-56 and figures 11A-B and column 12, lines 10-35).

Regarding claim 29, Hilsenrath discloses the multi path database is created from analysis of the surrounding in the coverage area of the base station column 11, lines 37-56 and figures 11A-B).

Regarding claim 30, Hilsenrath discloses the multi path database is created from measurements made by driving the mobile station through the coverage area of the base station and logging mobile position and angle of arrival of the energy (column 6, lines 6-23, column 11, lines 37-56 and figures 11A-B).

Application/Control Number: 09/998,860 Page 4

Art Unit: 2684

Response to remarks

4. Applicant has corrected the specification for minor punctuation, typographical and grammatical errors, for inconsistent reference numerals; and for drawing descriptions that do not correspond to the figures is acknowledged and entered.

Applicant cancel the title in complies with the objection of title and summating new title is acknowledged.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 703-308-5873. The examiner can normally be reached on flex.

Application/Control Number: 09/998,860

Art Unit: 2684

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-308-6306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

Art Unit : 2684

Page 5

January 12, 2004

TBG